AMENDMENTS TO THE CLAIMS

1. (Previously Presented) An isolated DNA comprising a nucleotide sequence encoding the following polypeptide (a) or (b):

(a) a polypeptide, consisting of an amino acid sequence identical to the amino acid sequence represented by SEQ ID NO: 2; or

(b) a polypeptide, consisting of an amino acid sequence derived from the amino acid sequence represented by SEQ ID NO: 2 by deletion, substitution, or addition of within one to twenty amino acids and having N-acetylglucosamine transferase activity.

2. (Currently Amended) An isolated DNA (c) or (d) as follows:

(c) a DNA, comprising the nucleotide sequence represented by SEQ ID NO: 1 and containing the nucleotide sequence that encodes the amino acid sequence represented by SEQ ID NO: 2; or

(d) a DNA, hybridizing under stringent condition of ~~0.1 XSSC~~ 1 x SSC, 0.1% SDS and 37 °C to a DNA consisting of a nucleotide sequence complementary to that of the DNA (c) and encoding a protein having N-acetylglucosamine transferase activity.

3. (Cancelled)

4. (Previously Presented) An expression vector, comprising the DNA of claim 1 or claim 2.

5. (Original) A transformant, comprising the vector of claim 4.

6.-17. (Cancelled)

18. (Currently Amended) An isolated polynucleotide, hybridizing under stringent conditions of ~~0.1 XSSC~~ 1 x SSC, 0.1% SDS and 37 °C to the DNA of claim 1 and consisting of at least 15 nucleotides.

19. (Original) The polynucleotide of claim 18, encoding the amino acid sequence represented by SEQ ID NO: 3 or 4.

20. (Withdrawn – Currently Amended) A method for detecting carcinoma using the polynucleotide of claim 18 as a probe, comprising the steps of:

(a) bringing a test sample into contact with the polynucleotide; and

(b) detecting ~~activity of hybridization between~~ whether the polynucleotide and the test sample hybridize.

21. (Currently Amended) A method for producing a protein comprising culturing the transformant according to claim 5 and inducing expression of the DNA ~~to produce polypeptide (a) or (b) or a polypeptide encoded by (c) or (d)~~.